Abstract

Arrangement for compensating Raman scattering

A light beam (LS) which is used for transmitting a wavelength division multiplex signal (WDM_v) is guided to a Bragg grating (BG) via an adjustable mirror (MR1). According to the angle of incidence of the light beam relative to the longitudinal axis (LA) of the Bragg grating (BG), different transmission characteristic curves having different gradients (m_0 - m_4) are produced. As a result thereof, scattering of the wavelength division multiplex signal (WDM_v) can be compensated. A second controllable mirror (MR2) enables the damping to be adjusted. A control device (RE) effects a rapid correction of the scattering after data signals are connected or disconnected.

Figure 1